Cell and Tissue Research

Continuation of Zeitschrift für Zellforschung und mikroskopische Anatomie

Vol. 159 · 1975

Editors
W. Bargmann, Kiel
D. S. Farner, Seattle
A. Oksche, Giessen
B. Scharrer, New York

Springer-Verlag
Berlin · Heidelberg · New York

Cell and Tissue Research

This journal was founded in 1924 as the Zeitschrift für Zellen- und Gewebelehre, from Vol. 2 (1925) it was published with the subtitle: Continuation of the Schultze-Waldeyer-Hertwig Archiv für mikroskopische Anatomie. Zeitschrift für Zellforschung und mikroskopische Anatomie (Vols. 1—20) (1934) as: Zeitschrift für wissenschaftliche Biologie (Abteilung B) edited by *R. Goldschmidt, W. von Möllendorff, H. Bauer, J. Seiler*. Vols. 2—28 (1938) edited by *R. Goldschmidt* and *W. von Möllendorff*. Vols. 29—33 (1944) as: Zeitschrift für Zellforschung und mikroskopische Anatomie, Abteilung A, Allgemeine Zellforschung und mikroskopische Anatomie, edited by *W. von Möllendorff* and *J. Seiler*, from Vol. 34 without the subtitle, Abteilung A, Allgemeine Zellforschung und mikroskopische Anatomie. From Vol. 36 (1951) edited by *W. Bargmann, J. Seiler*; from Vol. 53 (1960) edited by *W. Bargmann, B. Scharrer, J. Seiler*; from Vol. 83 (1967) edited by *W. Bargmann, D. S. Farner, A. Oksche, B. Scharrer, J. Seiler*; from Vol. 125 (1972) edited by *W. Bargmann, D. S. Farner, F. Knowles, A. Oksche, B. Scharrer*. Beginning with Vol. 125 (1972) with the subtitle Cell and Tissue Research and beginning with Vol. 148 (1974) under the title Cell and Tissue Research and the subtitle Continuation of Zeitschrift für Zellforschung und mikroskopische Anatomie.

Published: Vols. 34—35 (1948—1950) Springer, Wien, from Vol. 36 Springer, Berlin.

The exclusive copyright for all languages and countries, including the right for photomechanical and any other reproductions, also in microform, is transferred to the publisher.

The use of registered names, trademarks, etc. in this publication does not imply, even in the absence of a specific statement, that such names are exempt from the relevant protective laws and regulations and therefore free for general use.

Springer-Verlag, Berlin · Heidelberg · New York

Printers: Universitätsdruckerei H. Stürtz AG, Würzburg

Printed in Germany — © by Springer-Verlag Berlin-Heidelberg 1975

Inhalt/Contents

Ackermann, G. A.: Surface Differentiation of Hemopoietic Cells Demonstrated Ultrastructurally with Cationized Ferritin . . . 23
Augee, M. L., s. Fink, G., *et al.* . . . 531
Beck, S. D., s. Griffiths, G. W. . . . 351
Beier, H. M., Maurer, R. R.: Uteroglobin and Other Proteins in Rabbit Blastocyst Fluid after Development *in vivo* and *in vitro* . . . 1
Bouligand, I., s. Gharagozlou-van Ginneken, I. D. . . . 399
Boyde, A., s. Jones, S. J., *et al.* . . . 73
Brun, R., s. Hecker, H. . . . 91
Budtz, P. E., Larsen, L. O.: Structure of the Toad Epidermis during the Moulting Cycle. II. Electron Microscopic Observations on *Bufo bufo* (L.) . . . 459
Campbell, R. D., Rahat, M.: Ultrastructure of Nematocytes and Onecelled Tentacles of the Freshwater Coelenterate, *Calpasoma dactyloptera* . . . 445
Carlson, S. D., s. Chi, C. . . . 379
Castel, M., Papir, D.: The Ultrastructure of Normal and Glycerol Treated Muscle in the Ghost Crab, *Ocypode cursor* . . . 369
Chi, C., Carlson, S. D.: The Distal Ommatidium of the Compound Eye of the Housefly (*Muca domestica*): A Scanning Electron Microscopy Study. . . . 379
Dail, W. G., Jr., Evan, A. P., Jr., Eason, Helen R.: The Major Ganglion in the Pelvic Plexus of the Male Rat. A Histochemical and Ultrastructural Study . . . 49
Dierickx, K., Waele, G. De: Scanning Electron Microscopy of the Wall of the Third Ventricle of the Brain of *Rana temporaria*. II. Electron Microscopy of the Ventricular Surface of the Pars ventralis of the Tuber cinereum. . . . 81
Dilly, P. N.: The Dormant Buds of *Rhabdopleura compacta* (Hemichordata) . . . 387
Eason, Helen, R., s. Dail, W. G., Jr., *et al.* . . . 49
Ekengren, B.: Aminergic Nuclei in the Hypothalamus of the Roach *Leuciscus rutilus* . 493
Evan, A. P., Jr., s. Dail, W. G., Jr., *et al.* . . . 49
Fahrenbach, W. H., Griffin, A. J.: The Morphology of the *Limulus* Visual System. VI. Connectivity in the Ocellus . . . 39
Farner, D. S., s. Mikani, S., *et al.* . . . 147
Fink, G., Smith, G. C., Augee, M. L.: Histochemical, Ultrastructural and Hormonal Studies on the Pars distalis of the Echidna (*Tachyglossus aculeatus*) . . . 531
Fioroni, P., s. Schmekel, L. . . . 503
Gardner, P. J., Weidler, D. J.: Ultrastructural Study of the Neural Fat-body System in the Cockroach *Periplaneta americana* . . . 485
Garrett, J. R., Thulin, A.: Changes in Parotid Acinar Cells Accompanying Salivary Secretion in Rats on Sympathetic or Parasympathetic Nerve Stimulation. . . . 179
Gharagozlou-van Ginneken, I. D., Bouligand, I.: Studies on the Fine Structure of the Cuticle of *Porcellidium*, Crustacea, Copepoda. . . . 399
Greven, J. A. A., s. Wendelaar Bonga, S. E. . . . 287
Griffin, A. J., s. Fahrenbach, W. H. . . . 39
Griffiths, G. W., Beck, S. D.: Ultrastructure of the Pea Aphid Mycetocytes: Evidence for Symbiote Secretion . . . 351
Haar, J. L., s. Hightower, J. A. . . . 63
Hansson, H.-A., Linde, A., Nygren, H.: Scanning Electron Microscopic Studies of the Rat Incisor Odontoblastema . . . 233
Hashimoto, Y., s. Terakado, K., *et al.* . . . 311
Hecker, H., Brun, R.: Morphometric Differences in Midgut Epithelial Cells between Strains of Female *Aedes aegypti* (L.) (Insecta, Diptera) . . . 91

Herbert, D. C., s. Warchol, J. B., *et al.* 205
Hightower, J. A., Haar, J. L.: A Light and Electron Microscopic Study of Myelopoietic Cells in the Perihepatic Subcapsular Region of the Liver in the Adult Aquatic Newt, *Notophthalmus viridescens* 63
Hirata, K., Nada, O.: A Monoamine in the Gustatory Cell of the Frog's Taste Organ. A Fluorescence Histochemical and Electron Microscopic Study 101
Holstein, A.-F., s. Wartenberg, H. 435
Honegger, H.-W., Schürmann, F. W.: Cobalt Sulphide Staining of Optic Fibres in the Brain of the Cricket, *Gryllus campestris* 213
Humphreys, P. N.: Ultrastructure of the Budgerigar Testis during a Photoperiodically Induced Cycle 541
Jansen, H. G., s. Stockart, R., *et al.* 11
Jones, S. J., Boyde, A., Pawley, J. B.: Osteoblasts and Collagen Orientation 73
Kiełbówna, L.: Utilization of Yolk Platelets and Lipid Bodies during the Myogenesis of *Xenopus laevis* (Daudin) 279
Kimble, J. E., Møllgård, K.: Subcommissural Organ-associated Neurons in Fetal and Neonatal Rabbit 195
Kiss, J., Koritsánszky, S.: Autoradiographic Studies on the Protein Synthesis and the Distribution of the Newly Synthesized Proteins in Oligodendroglial Cells 267
Koritsánszky, S., s. Kiss, J. 267
Kreike, A. J., s. Stoeckart, R., *et al.* 11
Kurosu, T., s. Mikami, S., *et al.* 147
Larsen, L. O., s. Budtz, P. E. 469
Linde, A., s. Hansson, H.-A., *et al.* 233
Livingston, A.: Morphology of the Perivascular Regions of the Rat Neural Lobe in Relation to Hormone Release 551
Matsuzaki, H., s. Terakado, K., *et al.* 311
Maurer, R. R., s. Beier, H. M. 1
Mikami, S., Kurosu, T., Farner, D. S.: Light- and Electron-Microscopic Studies on the Secretory Cytology of the Adenohypophysis of the Japanese Quail, *Coturnix coturnix japonica* 147
Møllgård, K., s. Kimble, J. E. 195
Moya, J., Rallo, A. M.: Intracisternal Polycylinders: A Cytoplasmic Structure in Cells of the Terrestrial Slug, *Arion empiricorum* Férussac (Pulmonata, Stylommatophora) . 423
Myklebust, R., Tjønneland, A.: The Membrane Systems of the Cardiac Muscle Cell of *Munida tenuimana* G. O. Sars (Crustacea, Decapoda) 339
Nada, O., s. Hirata, K. 101
Nüesch, H., s. Stocker, R. F. 245
Nygren, H., s. Hansson, H.-A., *et al.* 233
Ogawa, M., s. Terakado, K., *et al.* 311
Olson, L., s. Seiger, Å. 325
Papir, D., s. Castel, M. 369
Pawley, J. B., s. Jones, S. J., *et al.* 73
Pevet, P.: Vacuolated Pinealocytes in the Hedgehog (*Erinaceus europaeus* L.) and the Mole (*Talpa europaea* L.) 303
Plačková, A., Vahl, J.: The Ultrastructure of Topical Cutaneous Calcinosis 523
Rahat, M., s. Campbell, R. D. 445
Rallo, A. M., s. Moya, J. 423
Rennels, E. G., s. Warchol, J. B., *et al.* 205
Schmekel, L., Fioroni, P.: Cell Differentiation during Early Development of *Nassarius reticulatus* L. (Gastropoda Prosobranchia) I. Zygote to 16-Cell Stage 503
Schürmann, F. W., s. Honegger, H.-W. 213
Seiger, Å., Olson, L.: Brain Tissue Transplanted to the Anterior Chamber of the Eye: 3. Substitution of Lacking Central Noradrenaline Input by Host Iris Sympathetic Fibers in the Isolated Cerebral Cotrex Developed *in oculo* 325

Silverman, A. J., Zimmermann, E. A.: Ultrastructural Immunocytochemical Localization of Neurophysin and Vasopressin in the Median Eminence and Posterior Pituitary of the Guinea Pig 291
Smith, G. C., s. Fink, G., *et al.* 531
Stanka, P., Occurrence of Cell Junctions and Microfilaments in Osteoblasts 413
Stebbings, H.: The Role of Microtubules in the Assembly of Vinblastine-Induced Crystals (Short Communication) 141
Stocker, R. F., Nüesch, H.: Ultrastructural Studies on Neuromuscular Contacts and the Formation of Junctions in the Flight Muscle of *Antheraea polyphemus* (Lep.) I. Normal Adult Development 245
Stoeckart, R., Jansen, H. G., Kreike, A. J.: Influence of Castration on Incorporation of Exogenous Peroxidase into "Synaptic" Vesicles of the Median Eminence. II. The Perivascular Part of the Palisade Zone in Male Rats 11
Takaya, K.: Energy Dispersive X-Ray Microanalysis of Neurosecretory Granules of Mouse Pituitary on Fresh Air-Dried Tissue Spreads 227
Terakado, K., Ogawa, M., Hashimoto, Y., Matsuzaki, H.: Ultrastructure of the Thread Cells in the Slime Gland of Japanese Hagfishes, *Paramyxine atami* and *Eptatretus burgeri* 311
Thulin, A., s. Garrett, J. R. 179
Tjønneland, A., s. Myklebust, R. 339
Vahl, J., s. Plačková, A. 523
Wada, M.: Cell Types in the Adenohypophysis of the Japanese Quail and Effects of Injection of Luteinizing Hormone-Releasing Hormone 167
Wächtler, K.: The Distribution of Acetylcholinesterase in the Cyclostome Brain. II. Myxine glutinosa 109
Waele, G. De, s. Dierickx, K.. 81
Warchol, J. B., Herbert, D. C., Williams, M. G., Rennels, E. G.: Distribution of Microtubules in Prolactin Cells of Lactating Rats 205
Wartenberg, H., Holstein, A.-F.: Morphology of the "Spindle-Shaped Body" in the Developing Tail of Human Spermatids 435
Weidler, D. J., s. Gardner, P. J.. 485
Wendelaar Bonga, S. E., Greven, J. A. A.: A Second Cell Type in Stannius Bodies of Two Euryhaline Teleost Species (Short Communication) 287
Williams, M. G., s. Warchol, J. B., *et al.* 205
Wondrak, G.: The Ultrastructure of the Sensory Cells in the Chemoreceptor of the Ommatophore of *Helix pomatia* L. 121
Zimmermann, E. A., s. Silverman, A. J. 291

Indexed in Current Contents